

SAFETY DATA SHEET

Issue Date 21-Feb-2020 Revision Date 21-Feb-2020 Version 1

1. IDENTIFICATION

Product identifier

Product Name Threadpaste 441

Other means of identification

Product Code MS-441 UN/ID no. None Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Anaerobic Adhesive.

Uses advised against None known

Details of the supplier of the safety data sheet

Manufacturer Address
Hernon Manufacturing Inc.
121 Tech Drive

Sanford, FL 32771 800-527-0004

Emergency telephone number

Company Phone Number 407-322-4000

Emergency Telephone Chemtel 800-255-3924

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Label elements

Emergency Overview

Warning

Hazard statements

Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause damage to organs through prolonged or repeated exposure



Appearance No information available Physical state Liquid Odor Mild

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Get medical advice/attention if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful in contact with skin. Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
POLYETHYLENE GLYCOL DIMETHACRYLATE	25852-47-5	30 - 60	*
HYDROXYPROPYL METHACRYLATE	27813-02-1	10 - 30	*
CUMENE HYDROPEROXIDE	80-15-9	1 - 5	*
MALEIC ACID	110-16-7	0.1 - 1	*
BUTYL HYDROXY TOLUENE	128-37-0	0.1 - 1	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash with soap and water. Flush skin with water for several minutes. Remove

contaminated clothing and shoes. If irritation develops, seek medical attention. Wash

clothing before reuse.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give

artificial respiration. Get medical attention immediately.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a

POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use CO2, dry chemical, or foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Irritating organic vapors.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective gloves/protective clothing and eye/face protection.

Environmental precautions

Environmental precautionsDo not allow into any sewer, on the ground or into any body of water. See Section 12 for

additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly

after handling. Ensure adequate ventilation, especially in confined areas.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep at temperatures between 46°F and 82°F (8°C and 28°C).

Reducing agents. Strong oxidizers. Incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
BUTYL HYDROXY TOLUENE	TWA: 2 mg/m³ inhalable fraction	(vacated) TWA: 10 mg/m ³	TWA: 10 mg/m ³
128-37-0	and vapor		-

Appropriate engineering controls

Engineering Controls Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing. Use rubber or plastic gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance No information available Odor Mild

Color Red **Odor threshold** No information available

Property Values Remarks • Method

pН Does not apply

Melting point / freezing point No information available Boiling point / boiling range 149 °C / 300 °F 93.3 °C / 200 °F Flash point **Evaporation rate** No information available

Flammability (solid, gas) No information available Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available

Vapor pressure < 5 mm @80 °F

Vapor density No information available

Relative density 1.08

Water solubility Slightly soluble

Solubility in other solvents No information available

Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Incompatible materials.

Incompatible materials

Reducing agents. Strong oxidizers.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Irritating organic vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

InhalationNo data available.Eye contactNo data available.Skin contactNo data available.IngestionNo data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
HYDROXYPROPYL METHACRYLATE 27813-02-1	= 11200 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
CUMENE HYDROPEROXIDE 80-15-9	= 382 mg/kg (Rat)	= 0.126 mL/kg (Rabbit)	= 220 ppm (Rat) 4 h
MALEIC ACID 110-16-7	= 708 mg/kg (Rat)	= 1560 mg/kg (Rabbit)	> 720 mg/m³ (Rat) 1 h
BUTYL HYDROXY TOLUENE 128-37-0	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

No information available.

Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
BUTYL HYDROXY	-	Group 3	-	-
TOLUENE		-		
128-37-0				

Reproductive toxicitySTOT - single exposure
No information available.
No information available.

STOT - repeated exposure Irritant.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 680.70 mg/kg

ATEmix (dermal) 3,007.30 mg/kg mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life

Chemical Name	Algae/aquatic plants	Fish	Crustacea
HYDROXYPROPYL	-	493: 48 h Leuciscus idus melanotus	-
METHACRYLATE		mg/L LC50 static	
27813-02-1			
CUMENE HYDROPEROXIDE	-	3.9: 96 h Oncorhynchus mykiss	7: 24 h Daphnia magna mg/L EC50
80-15-9		mg/L LC50 static	
MALEIC ACID	-	5: 96 h Pimephales promelas mg/L	250 - 400: 48 h Daphnia magna
110-16-7		LC50 static	mg/L EC50
BUTYL HYDROXY TOLUENE	6: 72 h Pseudokirchneriella	5: 48 h Oryzias latipes mg/L LC50	-
128-37-0	subcapitata mg/L EC50 0.42: 72 h		
	Desmodesmus subspicatus mg/L		
	EC50		

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
HYDROXYPROPYL METHACRYLATE	0.97
27813-02-1	
MALEIC ACID	0.32
110-16-7	
BUTYL HYDROXY TOLUENE	4.17
128-37-0	

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDisposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
CUMENE	-	-	-	U096
HYDROPEROXIDE				
80-15-9				

Chemical Name	California Hazardous Waste Status
CUMENE HYDROPEROXIDE	Toxic
80-15-9	Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

IATA Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

<u>IMDG</u> Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies **KECL** Complies **PICCS** Complies **AICS** Complies

All ingredients are on the inventory or are exempt from listing.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
CUMENE HYDROPEROXIDE - 80-15-9	1.0

SARA 311/312 Hazard Categories

Acute health hazard Chronic Health Hazard Fire hazard Sudden release of pressure hazard Reactive Hazard -

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
MALEIC ACID 110-16-7	5000 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
CUMENE HYDROPEROXIDE	10 lb	-	RQ 10 lb final RQ
80-15-9			RQ 4.54 kg final RQ
MALEIC ACID	5000 lb	-	RQ 5000 lb final RQ
110-16-7			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65	
ETHYLENE GLYCOL - 107-21-1	Developmental	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
CUMENE HYDROPEROXIDE	X	X	X
80-15-9			
MALEIC ACID	X	X	X
110-16-7			
BUTYL HYDROXY TOLUENE	X	X	X
128-37-0			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards - Flammability - Instability - Physical and Chemical

Properties -

HMIS Health hazards - Flammability - Physical hazards - Personal protection -

Prepared By SDS coordinator Issue Date 21-Feb-2020 Revision Date 21-Feb-2020

Revision Note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet